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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,740	10/30/2001	Gregory C. Kime	42390P12158	5450
8791 7590 02/08/2007 BLAKELY SOKOLOFF TAYLOR & ZAFMAN				INER
12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025-1030			STRANGE, AARON N	
			ART UNIT	PAPER NUMBER
	,		2153	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
	ONTHS	02/08/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

·		Application No.	Applicant(s)			
Office Action Summary		10/016,740	KIME ET AL.			
		Examiner	Art Unit			
		Aaron Strange	2153			
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet with the	correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPI CHEVER IS LONGER, FROM THE MAILING [nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on 13 I	November 2006.				
2a)□	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims	, ,	•			
4 \\⊠	Claim(s) 31-36,39-46,48-53 and 58-60 is/are	pending in the application				
• —	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
·	6)⊠ Claim(s) <u>31-36,39-46,48-53 and 58-60</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
•	Claim(s) are subject to restriction and/	or election requirement.				
Applicat	on Papers					
	•	· ·				
• -	9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the E	• • • • • • • • • • • • • • • • • • • •	•			
Priority (under 35 U.S.C. § 119					
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
α,	1. Certified copies of the priority documents have been received.					
	Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	1(s)					
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notic	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
	B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:					
	· ·		<u> </u>			

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DETAILED ACTION

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Response to Arguments

- 1. Applicant's arguments filed 11/13/06 have been fully considered but they are not persuasive.
- 2. With regard to claim 31, and Applicant's assertion that Rajasekharan does not disclose "wherein the validation key embedded data stream is to ensure that the data stream includes content intended for an associated destination", the Examiner respectfully disagrees. Applicant's own citation of Rajasekharan clearly states that Rajasekharan discloses a method for secure streaming, and that "Secure streaming provides protection against unauthorized use of digital content' (Rajasekharan, Abstract; Page 8 of Remarks). By protecting against unauthorized use of the content through embedding authorization data including PlayerID's (at least Col 4, Lines 24-55), Rajasekharan's validation key "is to ensure that the data stream contains content intended for an associated destination" (the content will not play on a player unless it is intended for that player, based on the PlayerID). When combined with Xie and Abdulhayoglu, a validation key embedded data stream is created to serve this purpose.
- 3. Furthermore, Applicant's newly added limitation "wherein the validation key embedded data stream is to ensure that the data stream includes content intended for an associated destination" is not given patentable weight because it simply expresses the intended result of the process step positively recited (the embedding step).

The Examiner recommends amending the claim to describe how the validation key is used to ensure that the data stream includes particular content.

In the interest of expedited prosecution, this limitation has been rejected below as though it were given patentable weight.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 31-36,39-41,44-46, 48-51, and 58-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rajasekharan et al. (US 6,480,961) in view of Xie et al. (US 6,606,393) in further view of Abdulhayoglu (US 2004/0030784).
- 6. With regard to claim 31, Rajasekharan discloses a method for validating a data stream comprising:

generating a unique validation key associated with the data stream (authorization data), the unique validation key to map the data stream with a source (source indicator maps stream to source)(Col 5, Lines 28-38), wherein the unique validation key is generated based on an encryption key (digital signature/source indicator is generated using DSA/RSA)(Col 4, Lines 25-27 and Col 5, Lines 27-29);

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generating the data stream (data stream is sent)(Col 4, Lines 51-55); storing the unique validation key (authorization data is stored at server)(Col 4, Lines 8-12);

wherein the validation key is to ensure that the data stream includes content intended for an associated destination (Col 5, Lines 35-43); and

sending the unique validation key (authorization data is sent to client)(Col 4, Line 6) and data stream (Col 4, Lines 51-55) to the associated destination (playback device). Rajasekharan fails to disclose embedding the validation key in the data stream to form a validation key embedded data stream or that the validation key is generated based on a URL.

Xie discloses several methods of authenticating digital messages that are old and well known in the art. Xie further discloses that embedding validation information within the digital stream is advantageous since removal of embedded information may destroy or alter the content. This provides better security that sending the validation data outside of the data stream (Col 1, Lines 27-45).

Abdulhayoglu discloses a similar system for verifying the source of received data based on a digital certificate included with the data. Abdulhayoglu teaches use of a digital certificate that includes a URL of the data source (¶84). This allows the recipient to verify that the source of the data is at that URL. This would have been an advantageous addition to the system disclosed by Rajasekharan, since it would have allowed a recipient of the data stream to be assured that the URL from which the data stream is coming is the URL that was requested.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to generate the validation key based on the URL of the data source and embed the validation key in the data stream to form a validation key embedded data stream in order to provide enhanced security since embedded validation keys would be much more difficult to remove from the data stream without corrupting it, ensuring that the source and URL could be validated by the recipient of the data stream.

- 7. With regard to claim 32, Rajasekharan further discloses that the source comprises one or more of a source of audio information, a source of video information, and a source of audio-video information and the URL (Col 4, Lines 1-2).
- 8. With regard to claim 33, Rajasekharan further discloses that generating the validation key associated with the data stream comprises generating the unique validation key in response to a request for data to be retrieved from the URL. Since the source of the unique validation key is a server computer accessed via the Internet (Col 4, Lines 6-9), it must be accessed via a URL prior to sending the authorization data to the client.
- 9. With regard to claim 34, Rajasekharan further discloses that generating the unique validation key associated with the data stream, said unique validation key to map the data stream with a source, comprises: generating the unique validation key

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(Col 5, Lines 28-38) and sending the unique validation key to the associated destination (Col 4, Line 6).

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- 10. With regard to claim 35, Rajasekharan further discloses that the data stream comprises one or more of encoded video information, encoded audio information, encoded audio-video information, and encoded information from the URL (Col 4, Lines 1-2).
- 11. With regard to claim 36, Rajasekharan further discloses receiving the validation key at the associated destination (Col 4, Line 6); sampling the unique validation key embedded data stream at the destination to detect the unique validation key (validation key is detected and checked) (Col 4, Lines 24-28).
- 12. With regard to claim 39, Rajasekharan discloses:

receiving a unique validation key (authorization data) associated with the data stream (Col 4, Line 4), the unique validation key to map the data stream with a source (Col 5, Lines 28-38), wherein the unique validation key is generated based on an encryption key (digital signature is generated using DSA/RSA)(Col 4, Lines 25-27 and Col 5, Lines 27-29);

receiving the data stream (Col 4, Lines 51-52);

detecting the unique validation key and validating the data stream in response to detecting the validation key (key is detected and checked)(Col 4, Lines 24-28), wherein

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the validation key is to ensure that the data stream includes content intended for an associated destination (Col 5, Lines 35-43). The validation key must be stored since the client receives it and analyzes it. Rajasekharan fails to disclose that the validation key is embedded in the data stream or that the validation key is generated based on a URL.

Xie discloses several methods of authenticating digital messages that are old and well known in the art. Xie further discloses that embedding validation information within the digital stream is advantageous since removal of embedded information may destroy or alter the content. This provides better security that sending the validation data outside of the data stream (Col 1, Lines 27-45).

Abdulhayoglu discloses a similar system for verifying the source of received data based on a digital certificate included with the data. Abdulhayoglu teaches use of a digital certificate that includes a URL of the data source (¶84). This allows the recipient to verify that the source of the data is at that URL. This would have been an advantageous addition to the system disclosed by Rajasekharan, since it would have allowed a recipient of the data stream to be assured that the URL from which the data stream is coming is the URL that was requested.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to generate the validation key based on the URL of the data source and embed the validation key in the data stream in order to provide enhanced security since embedded validation keys would be much more difficult to remove from the data stream without corrupting it, ensuring that the source and URL could be validated by the recipient of the data stream.

- 13. With regard to claim 40, Rajasekharan further discloses that the source comprises one or more of a source of audio information, a source of video information, and a source of audio-video information and the URL (Col 4, Lines 1-2).
- 14. With regard to claim 41, Rajasekharan further discloses requesting data to be retrieved from the URL. Since the source of the validation key is a server computer accessed via the Internet (Col 4, Lines 6-9), it must be accessed via a URL prior to sending the authorization data to the client.
- 15. Claims 42,43,52 and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable Rajasekharan et al. (US 6,480,961) in view of Xie et al. (US 6,606,393) in further view of Willis, Jr. et al. (US 6,738,815).
- 16. With regard to claims 42,43,52, and 53, while the system disclosed by Rajasekharan in view of Xie shows substantial features of the claimed invention (discussed above), it fails to disclose generating an error if the unique validation key is not detected in the data stream or writing the error to a log file. Rajasekharan does disclose checking the validation key to determine is the source is an authorized source (Col 4, Lines 24-28). Xie discloses that removing embedded validation keys may destroy or at least damage the underlying data (Xie, Col 1, Lines 36-36)

Willis, Jr. teaches the creation of a log file at a client and writing errors to the log

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file when they occur (Col 6, Lines 44-50). Willis, Jr. further discloses that the logs can be uploaded to a server as well (Col 6, Lines 49-50). This would have been an advantageous addition to the system disclosed by Rajasekharan in view of Xie since generating an error and storing it in a log file would have allowed the server, client, and/or users to be notified that the validation key was not found, and that the data may be invalid.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to generate an error and write it to a log file if the validation data is not detected in the data stream. This would have allowed the server, client, and/or users to be notified that the validation keys were not found and that the data may be invalid.

- 17. Claims 44-46 and 48 are rejected for the same reasons cited above regarding claims 31,32,35, and 33, respectively, since they recite substantially identical subject matter. A database is required in order to store the validation key at the server, and is therefore inherent. A processor and memory are inherent components of both the server and client devices since they are computers.
- 18. With regard to claim 49, Rajasekharan discloses a system comprising:
 a key generation module (KGM) to generate a unique validation key associated
 with a data stream (authorization data), the unique validation key to map the data
 stream with a source (Col 5, Lines 28-38), wherein the unique validation key is

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generated based on an encryption key (digital signature is generated using DSA/RSA)(Col 4, Lines 25-27 and Col 5, Lines 27-29);

an associated client to receive the validation key and data stream (Col 4, Line 6), wherein the validation key is to ensure that the data stream includes content intended for the associated client (Col 5, Lines 35-43);

and a database coupled with the associated client to store the unique validation key (client stores validation key to perform periodic checks) (Col 4, Line 65 to Col 5, Line 3). Rajasekharan fails to disclose embedding the validation key in the data stream to form a validation key embedded data stream or that the validation key is generated based on a URL.

Xie discloses several methods of authenticating digital messages that are old and well known in the art. Xie further discloses that embedding validation information within the digital stream is advantageous since removal of embedded information may destroy or alter the content. This provides better security that sending the validation data outside of the data stream (Col 1, Lines 27-45).

Abdulhayoglu discloses a similar system for verifying the source of received data based on a digital certificate included with the data. Abdulhayoglu teaches use of a digital certificate that includes a URL of the data source (¶84). This allows the recipient to verify that the source of the data is at that URL. This would have been an advantageous addition to the system disclosed by Rajasekharan, since it would have allowed a recipient of the data stream to be assured that the URL from which the data stream is coming is the URL that was requested.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to generate the validation key based on the URL of the data source and embed the validation key in the data stream in order to provide enhanced security since embedded validation keys would be much more difficult to remove from the data stream without corrupting it, ensuring that the source and URL could be validated by the recipient of the data stream.

- 19. With regard to claim 50, Rajasekharan further discloses that the source comprises one or more of a source of audio information, video information, audio-video information and the URL (Col 4, Lines 1-2).
- 20. With regard to claim 51, Rajasekharan further discloses that the associated client requests data to be retrieved from the URL. Since the source of the data is a server computer accessed via the Internet (Col 4, Lines 6-9), it must be accessed via a URL prior to sending the data stream to the client.
- 21. Claims 58 and 60 are rejected for the same reasons cited above regarding claims 31 and 35, respectively, since they recite substantially identical subject matter. A machine-readable medium containing instructions to perform the methods is inherent in the system disclosed by Rajasekharan since the system is implemented using computers.

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22. With regard to claim 59, Rajasekharan further discloses sampling the data stream to detect the unique validation key embedded in the data stream (Col 4, Lines 24-28).

Conclusion

23. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron Strange whose telephone number is 571-272-3959. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glen Burgess can be reached on 571-272-3949. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AS 2/1/07

KRISNA LIM PRIMARY EXAMINER